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(71) Applicant (for all designated States except US):
ANSALDO ENERGIA S.P.A. [IT/IT]; Via Nicola
 Lorenzi, 8, I-16152 Genova (IT).

(72) Inventors; and

(75) **Inventors/Applicants (for US only): LOMBARDI, Filippo [IT/IT]; Via Mangini 21, I-16026 Montoggio (IT). MASTRETТА, Roberto [IT/IT]; Via Chiabrera, 11/9A, I-16123 Genova (IT).**

(74) **Agents:** CERBARO, Elena et al.; c/o Studio Torta S.r.l.,
Via Viotti, 9, I-10121 Torino (IT).

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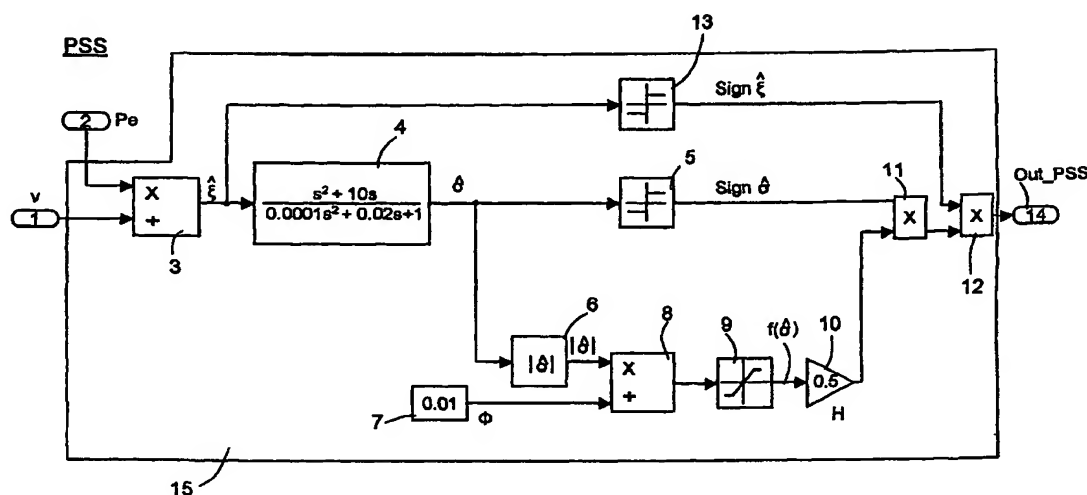
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(54) Title: COMPENSATOR DEVICE FOR STABILISING THE POWER OF ALTERNATORS IN ELECTRICAL POWER GENERATING PLANTS



(57) Abstract: Compensator device (PSS), for the stabilisation of electromechanical oscillations destined to provide a reference signal (OUT_PSS) to a voltage regulator device (AVR) of a synchronous alternator (G) for the delivery of electrical power to a distribution network (NET). Said device including: - first processing means (3,4) to receive electrical measurement signals representing operative parameters characteristics of said synchronous alternator and/or to generate an electrical signal to be controlled ($\xi(t)$): and a first electrical signal ($\sigma(\xi, t)$) corresponding to a sliding surface of a control of the “sliding modes” type, - second processing means (19,20) of the first signal ($\sigma(\xi, t)$) to generate the reference signal (OUT_PSS) so that it has a first order “sliding modes” profile.